Name:

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Tue, 17 Mar 2015

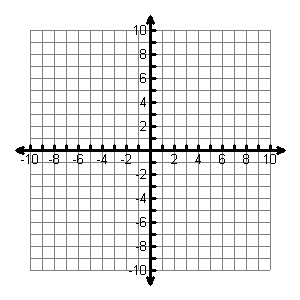
**Geometry**

**Homework**



***Part 1: Complete all class work (if not completed in class)***

***Part 2:***  *Carefully read and answer the following questions. Be sure to use the appropriate formulas!*



**1.** A parallelogram has vertices at L (-4, 2), M (-7, -3),   
N (1, 2), and O (-2, -3). Find the area of the parallelogram.

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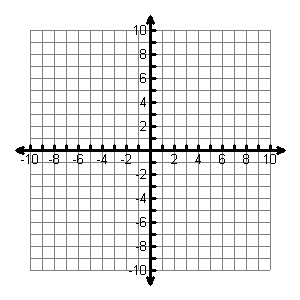
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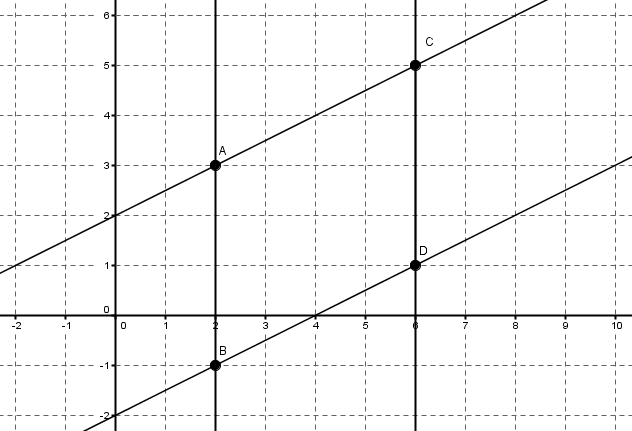
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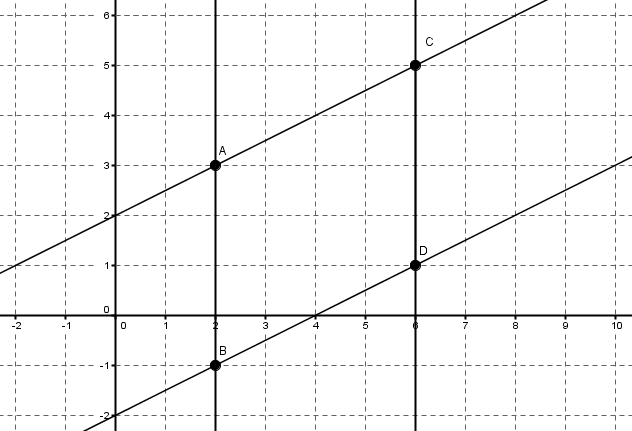


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* 1. Draw a diagonal line from point *C* to point *B*. Draw another diagonal line from point *A* to point *D*. Mark the point of intersection as point *E*.
  2. Find the lengths of , , and . In a complete sentence, describe what you notice about the lengths of segments AE and ED.
  3. What prediction can you make about the lengths of , , and .
  4. Find the lengths of segments BC, BE, and EC and compare the answers to your predictions.
  5. What conclusion can you come to about the diagonals of a parallelogram?

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